

SEQUENCE LISTING

<110> BOUGUELERET Lydie
JEANDENANS Catherine
PARDO Bruno

<120> SECRETED POLYPEPTIDE SPECIES ASSOCIATED
WITH CARDIOVASCULAR DISORDERS

<130> DV/4-33620A/GEP

<140> 10/520,730

<141> 2005-01-07

<150> 60/394,576

<151> 2002-07-08

<150> 60/438,664

<151> 2003-01-07

<150> PCT/EP03/006766

<151> 2003-06-26

<160> 14

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 227

<212> PRT

<213> Homo sapiens

<220>

<221> PROPEP

<222> (1)...(227)

<223> Sequence of CPP 10, the precursor of amino acid
sequences of the polypeptides present in plasma
samples of individuals with coronary artery
disease.

<221> SIGNAL

<222> (1)...(22)

<221> SIMILAR

<222> (109)...(109)

<223> Conserved Glu83 in cis (PEBP_HUMAN numbering)

<221> BINDING

<222> (146)...(149)

<221> BINDING

<222> (96)...(100)

<221> DISULFID

<222> (43)...(64)

<221> DISULFID

<222> (30)...(58)

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<400> 1
Met Gly Trp Thr Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu
-20 -15 -10
Met Met Val Val Thr Gly Asp Glu Asp Glu Asn Ser Pro Cys Ala His
-5 1 5 10
Glu Ala Leu Leu Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val
15 20 25
Phe Tyr Pro Glu Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys
30 35 40
Asn Asn Tyr Arg Gln Lys Ile Thr Ser Trp Met Glu Pro Ile Val Lys
45 50 55
Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
60 65 70
Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp Arg His
75 80 85 90
Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Glu Gly Lys Ile
95 100 105
Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala His
110 115 120
Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys
125 130 135
Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys
140 145 150
Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu Ala Ser
155 160 165 170
Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu Gln Ala
175 180 185
Pro Arg Gly Arg Ala Ser Glu Pro Lys His Lys Asn Gln Ala Glu Ile
190 195 200
Ala Ala Cys
205

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<210> 2
<211> 205
<212> PRT
<213> Homo sapiens

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<220>
<221> PEPTIDE
<222> (1)...(205)
<223> Sequence of CPP 10 polypeptide present in plasma
      samples of individuals with coronary artery
      disease

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<221> BINDING
<222> (74)...(78)

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<221> SIMILAR
<222> (87)...(87)
<223> Conserved Glu83 in cis (PEBP_HUMAN numbering)

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<221> DISULFID
<222> (21)...(42)

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<221> DISULFID
<222> (8)...(36)

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<221> BINDING
<222> (124)...(127)

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<400> 2
Asp Glu Asp Glu Asn Ser Pro Cys Ala His Glu Ala Leu Leu Asp Glu
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Asp Thr Leu Phe Cys Gln Gly Leu Glu Val Phe Tyr Pro Glu Leu Gly
 20          25          30
Asn Ile Gly Cys Lys Val Val Pro Asp Cys Asn Asn Tyr Arg Gln Lys
 35          40          45
Ile Thr Ser Trp Met Glu Pro Ile Val Lys Phe Pro Gly Ala Val Asp
 50          55          60
Gly Ala Thr Tyr Ile Leu Val Met Val Asp Pro Asp Ala Pro Ser Arg
 65          70          75          80
Ala Glu Pro Arg Gln Arg Phe Trp Arg His Trp Leu Val Thr Asp Ile
 85          90          95
Lys Gly Ala Asp Leu Lys Glu Gly Lys Ile Gln Gly Gln Glu Leu Ser
100          105          110
Ala Tyr Gln Ala Pro Ser Pro Pro Ala His Ser Gly Phe His Arg Tyr
115          120          125
Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys Val Ile Ser Leu Leu Pro
130          135          140
Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys Met Asp Arg Phe Leu Asn
145          150          155          160
Arg Phe His Leu Gly Glu Pro Glu Ala Ser Thr Gln Phe Met Thr Gln
165          170          175
Asn Tyr Gln Asp Ser Pro Thr Leu Gln Ala Pro Arg Gly Arg Ala Ser
180          185          190
Glu Pro Lys His Lys Asn Gln Ala Glu Ile Ala Ala Cys
195          200          205

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<210> 3
<211> 223
<212> PRT
<213> Homo sapiens

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<220>
<221> PROPEP
<222> (1)...(223)
<223> Sequence of CPP 11, the precursor of amino acid
sequences of the polypeptides present in plasma
samples of individuals with coronary artery
disease

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<221> SIGNAL
<222> (1)...(22)

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<221> DISULFID
<222> (30)...(58)

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<221> SIMILAR
<222> (109)...(109)
<223> Conserved Glu83 in cis (PEBP_HUMAN numbering)

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<221> BINDING
<222> (146)...(149)

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<221> BINDING
<222> (96)...(100)

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<400> 3
Met Gly Trp Thr Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu
-20          -15          -10

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Met	Met	Val	Val	Thr	Gly	Asp	Glu	Asp	Glu	Asn	Ser	Pro	Cys	Ala	His
-5						1				5					10
Glu	Ala	Leu	Leu	Asp	Glu	Asp	Thr	Leu	Phe	Cys	Gln	Gly	Leu	Glu	Val
				15					20					25	
Phe	Tyr	Pro	Glu	Leu	Gly	Asn	Ile	Gly	Cys	Lys	Val	Val	Pro	Asp	Cys
			30					35					40		
Asn	Asn	Tyr	Arg	Gln	Lys	Ile	Thr	Ser	Trp	Met	Glu	Pro	Ile	Val	Lys
		45					50					55			
Phe	Pro	Gly	Ala	Val	Asp	Gly	Ala	Thr	Tyr	Ile	Leu	Val	Met	Val	Asp
	60					65				70					
Pro	Asp	Ala	Pro	Ser	Arg	Ala	Glu	Pro	Arg	Gln	Arg	Phe	Trp	Arg	His
75					80					85					90
Trp	Leu	Val	Thr	Asp	Ile	Lys	Gly	Ala	Asp	Leu	Lys	Glu	Gly	Lys	Ile
				95					100					105	
Gln	Gly	Gln	Glu	Leu	Ser	Ala	Tyr	Gln	Ala	Pro	Ser	Pro	Pro	Ala	His
			110					115					120		
Ser	Gly	Phe	His	Arg	Tyr	Gln	Phe	Val	Tyr	Leu	Gln	Glu	Gly	Lys	
		125					130				135				
Val	Ile	Ser	Leu	Leu	Pro	Lys	Glu	Asn	Lys	Thr	Arg	Gly	Ser	Trp	Lys
	140					145					150				
Met	Asp	Arg	Phe	Leu	Asn	Arg	Phe	His	Leu	Gly	Glu	Pro	Glu	Ala	Ser
155					160					165					170
Thr	Gln	Phe	Met	Thr	Gln	Asn	Tyr	Gln	Asp	Ser	Pro	Thr	Leu	Gln	Ala
				175					180					185	
Pro	Arg	Gly	Arg	Ala	Ser	Glu	Pro	Lys	His	Lys	Thr	Arg	Arg	Arg	
			190					195					200		

<210> 4
 <211> 143
 <212> PRT
 <213> Homo sapiens

<220>
 <221> PEPTIDE
 <222> (1)...(201)
 <223> Sequence of CPP 11 polypeptide present in plasma
 samples of individuals with coronary artery
 disease

<221> BINDING
 <222> (74)...(78)

<221> DISULFID
 <222> (21)...(42)

<221> DISULFID
 <222> (8)...(36)

<221> SIMILAR
 <222> (87)...(87)
 <223> Conserved Glu83 in cis (PEBP_HUMAN numbering)

<221> BINDING
 <222> (124)...(127)

<400> 4
 Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
 1 5 10 15
 Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp Arg His
 20 25 30

Trp	Leu	Val	Thr	Asp	Ile	Lys	Gly	Ala	Asp	Leu	Lys	Glu	Gly	Lys	Ile
	35						40					45			
Gln	Gly	Gln	Glu	Leu	Ser	Ala	Tyr	Gln	Ala	Pro	Ser	Pro	Pro	Ala	His
50						55				60					
Ser	Gly	Phe	His	Arg	Tyr	Gln	Phe	Phe	Val	Tyr	Leu	Gln	Glu	Gly	Lys
65					70					75					80
Val	Ile	Ser	Leu	Leu	Pro	Lys	Glu	Asn	Lys	Thr	Arg	Gly	Ser	Trp	Lys
			85						90					95	
Met	Asp	Arg	Phe	Leu	Asn	Arg	Phe	His	Leu	Gly	Glu	Pro	Glu	Ala	Ser
			100					105						110	
Thr	Gln	Phe	Met	Thr	Gln	Asn	Tyr	Gln	Asp	Ser	Pro	Thr	Leu	Gln	Ala
		115					120						125		
Pro	Arg	Gly	Arg	Ala	Ser	Glu	Pro	Lys	His	Lys	Thr	Arg	Arg	Arg	
	130					135					140				

<210> 5
 <211> 10
 <212> PRT
 <213> Homo sapiens

<220>
 <221> PEPTIDE
 <222> (1)...(10)
 <223> Tryptic peptide found by tandem mass spectrometry
 in plasma samples of individuals with coronary
 artery disease

<400> 5
 Ile Thr Ser Trp Met Glu Pro Ile Val Lys
 1 5 10

<210> 6
 <211> 22
 <212> PRT
 <213> Homo sapiens

<220>
 <221> PEPTIDE
 <222> (1)...(22)
 <223> Tryptic peptide found by tandem mass spectrometry
 in plasma samples of individuals with coronary
 artery disease

<400> 6
 Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
 1 5 10 15
 Pro Asp Ala Pro Ser Arg
 20

<210> 7
 <211> 8
 <212> PRT
 <213> Homo sapiens

<220>
 <221> PEPTIDE
 <222> (1)...(7)
 <223> Tryptic peptide found by tandem mass spectrometry

in plasma samples of individuals with coronary
artery disease

<400> 7

His Trp Leu Val Thr Asp Ile Lys
1 5

<210> 8

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> PEPTIDE

<222> (1)...(22)

<223> Tryptic peptide found by tandem mass spectrometry
in plasma samples of individuals with coronary
artery disease

<400> 8

Ile Gln Gly Gln Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala
1 5 10 15
His Ser Gly Phe His Arg
20

<210> 9

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> PEPTIDE

<222> (1)...(11)

<223> Tryptic peptide found by tandem mass spectrometry
in plasma samples of individuals with coronary
artery disease

<400> 9

Tyr Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys
1 5 10

<210> 10

<211> 7

<212> PRT

<213> Homo sapiens

<220>

<221> PEPTIDE

<222> (1)...(7)

<223> Tryptic peptide found by tandem mass spectrometry
in plasma samples of individuals with coronary
artery disease

<400> 10

Val Ile Ser Leu Leu Pro Lys
1 5

<210> 11
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> PROPEP
<222> (1)...(187)
<223> Sequence of the human
phosphatidylethanolamine-binding protein (PEBP)
protein (PEBP_HUMAN, NCBI accession number P30086)

<400> 11
Met Pro Val Asp Leu Ser Lys Trp Ser Gly Pro Leu Ser Leu Gln Glu
1 5 10 15
Val Asp Glu Gln Pro Gln His Pro Leu His Val Thr Tyr Ala Gly Ala
20 25 30
Ala Val Asp Glu Leu Gly Lys Val Leu Thr Pro Thr Gln Val Lys Asn
35 40 45
Arg Pro Thr Ser Ile Ser Trp Asp Gly Leu Asp Ser Gly Lys Leu Tyr
50 55 60
Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Asp Pro Lys
65 70 75 80
Tyr Arg Glu Trp His His Phe Leu Val Val Asn Met Lys Gly Asn Asp
85 90 95
Ile Ser Ser Gly Thr Val Leu Ser Asp Tyr Val Gly Ser Gly Pro Pro
100 105 110
Lys Gly Thr Gly Leu His Arg Tyr Val Trp Leu Val Tyr Glu Gln Asp
115 120 125
Arg Pro Leu Lys Cys Asp Glu Pro Ile Leu Ser Asn Arg Ser Gly Asp
130 135 140
His Arg Gly Lys Phe Lys Val Ala Ser Phe Arg Lys Lys Tyr Glu Leu
145 150 155 160
Arg Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Asp Asp Tyr
165 170 175
Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys
180 185

<210> 12
<211> 187
<212> PRT
<213> Bos taurus

<220>
<221> PROPEP
<222> (1)...(187)
<223> Sequence of the bovine
phosphatidylethanolamine-binding protein (PEBP)
protein (PEBP_BOVIN, NCBI accession number P13696)

<400> 12
Met Pro Val Asp Leu Ser Lys Trp Ser Gly Pro Leu Ser Leu Gln Glu
1 5 10 15
Val Asp Glu Arg Pro Gln His Pro Leu Gln Val Lys Tyr Gly Gly Ala
20 25 30
Glu Val Asp Glu Leu Gly Lys Val Leu Thr Pro Thr Gln Val Lys Asn
35 40 45
Arg Pro Thr Ser Ile Thr Trp Asp Gly Leu Asp Pro Gly Lys Leu Tyr
50 55 60
Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Asp Pro Lys

<210> 14
<211> 121
<212> PRT
<213> Mus musculus

<220>
<221> PROPEP
<222> (1)...(121)
<223> Q9D9L9, a mouse ortholog of the CPPs

<400> 14
Met Thr Met Lys Leu Val Ala Ala Ala Leu Cys Leu Ser Leu Leu Ala
1 5 10 15
Ala Gly Leu Trp Val Gly Leu Ser Leu Thr Ala Glu Ser Ile Glu Glu
20 25 30
Gly Lys Pro Gly Gly Glu Lys Pro Gly Gly Gly Lys Pro Gly Gly Ser
35 40 45
Gly Arg Gly Cys Phe Leu Pro Pro Leu Pro Lys Glu Asp Val Ser Leu
50 55 60
Cys Arg Asn Leu Glu Val Phe Tyr Met Glu Met Gly Asn Ile Ser Cys
65 70 75 80
Lys Ile Val Pro Lys Cys Asn Leu Tyr Arg Gln Lys Ile Thr Ala Trp
85 90 95
Gln Ala Pro Ile Val Lys Phe His Thr Ala Leu Asp Val Ser Glu Leu
100 105 110
Gly Trp Leu Lys Glu Asn Val Gly Pro
115 120